

Moldova s energy storage power station demand





Overview

How important is Moldova's cross-border power system?

Geographically positioned between Romania and Ukraine, the cross-border power system of the Republic of Moldova is critical for regional energy security and regional integration with the European and Moldova-Ukraine energy markets.

Does Moldova have a power system?

Although Moldova is interconnected with Romania, the two systems do not operate in parallel but can function together in island mode (four islands can be created). Romania's power system is part of ENTSO-E, and Moldova is currently working towards full synchronisation.

Why is Moldova's electricity supply so vulnerable?

Since November 2023, the MGRES gas-fired power plant in Transnistria is making up for the electricity import deficit from Ukraine. This heavy reliance on external sources, particularly from politically sensitive regions, makes the Republic of Moldova's electricity supply extremely vulnerable.

What is the main source of energy in the Republic of Moldova?

In the reference scenario, natural gas, primarily imported from the Russian Federation, remains the main component of the Republic of Moldova's generation mix accounting for over 30% and followed by oil.

How does Moldova's electricity system work?

Moldova's electricity system operates synchronously with Ukraine's, and the neighbouring systems are interconnected by 11 lines of 110 kV and 7 lines of 330 kV. Although Moldova is interconnected with Romania, the two systems do not operate in parallel but can function together in island mode (four islands can be created).



What is the storage capacity of petroleum products in Moldova?

Moldova's total storage capacity for petroleum products is over 150 000 m³, including state and industry storage but excluding the army's. In addition, the Giurgiulesti terminal has eight tanks for petroleum product storage with capacity of 63 600 m³ at its disposal.



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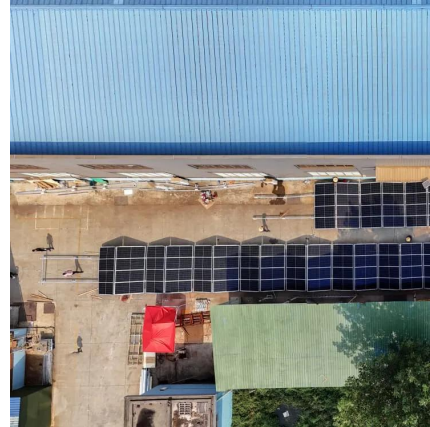
Energy security in Moldova in 2019 was at acceptable levels despite the country's exposure to gas supply shock risks. As Russia supplies all of Moldova's gas via Ukraine, two major supply ...

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This article explores how these systems address grid stability, renewable integration, and energy security - critical topics for policymakers, energy companies, and sustainability advocates.



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